

ENGLISH TRANSLATION OF THE INTERNATIONAL APPLICATION
FOR NATIONAL PHASE SUBMISSION

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Claims

1. Brush system for an electromotive drive unit, comprising:
 - a base plate (9),
 - brush system elements, in particular brush holder supports (10) mounted on the base plate (9),
 - conductors (13) provided on or in the base plate and
 - at least one electrical flat resistor enclosed in a resistor housing (14), said resistor housing (14) being made of a thermally conductive material and provided with air passage openings (15).
2. Brush system according to Claim 1, characterized in that the base plate (9) has an essentially discoidal shape and has a cut-out (18) in its central area for accommodating the armature shaft with the commutator.
3. Brush system according to one of the preceding Claims, characterized in that the resistor housing (14) is disposed in the same plane as the base plate (9) and is inserted in another cut-out in the base plate (9).
4. Brush system according to Claim 3, characterized in that the resistor housing (14) is essentially disk-segment-shaped.
5. Brush system according to one of the preceding Claims, characterized in that the resistor housing (14) is connected to the base plate (9) via snap-in connections (17).

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6. Brush system according to one of the preceding Claims, characterized in that the flat resistor contained in the resistor housing (14) is connected via connecting lugs (16) to the conductors (13) of the base plate (9).
7. Brush system according to one of the preceding Claims, characterized in that the air passage openings (15) are bore- or slit-shaped perforations through the resistor housing.
8. Brush system according to one of the preceding Claims, characterized in that the resistor housing (14) is made of a light metal.
9. Brush system according to one of the preceding Claims, characterized in that the resistor housing is provided with surface-enlarging extensions.
10. Brush system according to Claim 9, characterized in that the surface-enlarging extensions are beads or flanges.
11. Brush system according to Claim 9, characterized in that the surface-enlarging extensions are air flow deflecting elements (19).
12. Brush system according to one of Claims 9 - 11 characterized in that a surface-enlarging extension is provided for contacting the resistor housing to the motor housing.

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13. Brush system according to one of the preceding Claims, characterized in that the flat resistor is a resistor foil, a meander-shaped flat resistor or a wire-shaped resistor.
14. Brush system according to one of the preceding Claims, characterized in that the resistor housing (14) is implemented in a gas-, liquid- and particle-tight manner.
15. Brush system according to one of Claims 1 - 13, characterized in that the resistor housing (14) is implemented in an open manner.
16. Electromotive drive having a brush system according to one of Claims 1 - 15.